

SD700

Series

VARIABLE SPEED DRIVE

Variable Speed Drive

Configuration Register

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SD70RC0001CI Rev. C

1. INTRODUCTION

SD700 low voltage drives by Power Electronics is the most extensive product family with a power range from 1.5kW to 2000kW. It has been designed focused on maximum motor care, components durability and easy maintenance. SD700 portfolio is divided in 3 products series that comply with specific demands and standards in worldwide installations thanks to its own specific features: SD700, SD700KOMPAKT, SD700FREEMAQ (SD700FR & SD700FL).

SD700 SERIES is the core of the family, available from 1.5kW to 2000kW, a voltage range from 230VAC to 690VAC and available up to 24 pulses. IP20 and IP54 mechanical designs cover all general industry applications, making it the most flexible and extensive series.

The whole family integrates unique features such as low dV/dt , smart mechanical design and accurate control. It is divided in 11 frames to cover the whole power range.



Figure 1.1 SD700 Series

SD700 products provide high efficiency, maximum control, functional safety, durability, easy commissioning and easy maintenance for the whole range. Power Electronics delivers flexible integrated solutions, fully tested under the most demanding environmental and electrical conditions.

2. CONFIGURATION REGISTER

VARIABLE SPEED DRIVE: SD700.
 SERIAL N°:
 APPLICATION: MODEL:
 DATE:
 CUSTOMER:
 NOTES:

PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2
G1: Options Menu			
1 LOCK PARMTRS=0	0	_____	_____
2 PASSWORD_=OFF	OFF	_____	_____
3 PSW ERR=XXXX	XXXX	_____	_____
4 LANG=ESPANOL	ESPANOL	_____	_____
5 INITIALISE=0	0	_____	_____
6 SHORT Menu=NO	NO	_____	_____
7 PROG = STANDARD	STANDARD	_____	_____
11 FAN CTRL=FIXE	FIXE	_____	_____
12 RECT.BRIDGE=0	0	_____	_____

PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2
G2: Motor Nameplate Data			
1 MTR CUR=00.00A MOTOR CURRENT	00.00A	_____	_____
2 MTR VOLT=400V MOTOR VOLTAGE	400V	_____	_____
3 MTR PWR=00.0kW MOTOR POWER	00.0kW	_____	_____
4 MTR RPM=1485 MOTOR SPEED (rpm)	1485	_____	_____
5 MTR PFA=0.85 MTR POWER FACTOR	0.85	_____	_____
6 MTR FRQ=50Hz MOTOR FREQUENCY	50Hz	_____	_____
7 MTR COOL=63% MOTOR COOLING	63%	_____	_____
G3: References			
1 REF1 SPD=LOCAL	LOCAL	_____	_____
2 REF2 SPD=LOCAL	LOCAL	_____	_____
3 LOCAL SPD=+100% LOCAL SPEED	+100%	_____	_____
G4: Inputs – S4.1: Digital Inputs			
1 CNTROL MODE1=1	1	_____	_____
2 CNTROL MODE2=2	2	_____	_____
3 RESET MODE=Y	Y	_____	_____
4 DIGIT I MODE=1	1	_____	_____
5 DIGITL IN 1=06	06	_____	_____
6 DIGITL IN 2=00	00	_____	_____
7 DIGITL IN 3=00	00	_____	_____
8 DIGITL IN 4=00	00	_____	_____
9 DIGITL IN 5=00	00	_____	_____
10 DIGITL IN6=17	17	_____	_____
G4: Inputs – S4.2: Analogue Input 1			
1 SENSOR 1 ?=N	N	_____	_____
2 SENSOR 1= I/s	I/s	_____	_____
3 AIN1 FORMAT=V	V	_____	_____
4 INmin1=+0V AIN1 LOW RANGE	+0V	_____	_____
5 Smi1=+0.0I/s SENS1 LOW RANGE	+0.0I/s	_____	_____
6 INmax1=+10V AIN1 HIGH RANGE	+10V	_____	_____
7 Sma1=+10.0I/s SENS1 HIGH RANGE	+10.0I/s	_____	_____
8 SPD LO1=+0% SPD LO RNG AIN1	+0%	_____	_____
9 SPD HI1=+100% SPD HIG RNG AIN1	+100%	_____	_____

PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2
14 AIN1 LOSS=N	N	_____	_____
15 1_Z BAND=OFF AIN1 ZERO BAND	OFF	_____	_____
16 FILTER1=OFF AIN1 STABIL FILT	OFF	_____	_____
G4 Inputs – S4.3: Analogue Input 2			
1 SENSOR 2 ?=N	N	_____	_____
2 SENSOR 2=Bar	Bar	_____	_____
3 AIN2 FORMAT=mA	mA	_____	_____
4 INmin2=+4mA AIN2 LOW RANGE	+4mA	_____	_____
5 Smi2=+0.0Bar SENS2 LOW RANGE	+0.0Bar	_____	_____
6 INmax2=+20mA AIN2 HIGH RANGE	+20mA	_____	_____
7 Sma2=+10.0Bar SENS2 HIGH RANGE	+10.0Bar	_____	_____
8 SPD LO2=+0% SPD LO RNG AIN2	+0%	_____	_____
9 SPD HI2=+100% SPD HIG RNG AIN2	+100%	_____	_____
14 AIN2 LOSS=N	N	_____	_____
15 2_Z BAND=OFF AIN2 ZERO BAND	OFF	_____	_____
16 FILTER2=OFF AIN2 STABIL FILT	OFF	_____	_____
G4: Inputs – S4.4: Pulse Input			
1 Sensr U=l/m	l/m	_____	_____
2 Pls/s = 100 l/s LIQU AMOUNT/PULS	100l/s	_____	_____
3 M Rng=1000 l/s FLOW MAX RANGE	1000l/s	_____	_____
G5: Acceleration and Deceleration Ramps			
1 ACCE 1=5.0% / s INITIAL ACCEL	5.0% / s	_____	_____
2 DECEL 1=3.0% / s INITIAL DECEL	3.0% / s	_____	_____
3 ACCE 2=1.0% / s SECOND ACCELE	1.0% / s	_____	_____
4 DECEL 2=1.0% / s SECOND DECELE	1.0% / s	_____	_____
5 BRK ACC=OFF BREAKPOINT ACL	OFF	_____	_____
6 BRK DEC=OFF BREAKPOINT DCL	OFF	_____	_____
7 PMT ACL1=1.0% / s MOTO POT INC1	1.0% / s	_____	_____
8 PMT DCL1=3.0% / s MOTO POT DEC1	3.0% / s	_____	_____
9 PMT ACL2=1.0% / s MOTO POT INC2	1.0% / s	_____	_____
10 PMT DCL2=3.0% / s MOTO POT DEC2	3.0% / s	_____	_____
11 PMOT BRK=OFF MOTO POT BRKPOIN	OFF	_____	_____
12 SP FLT = 0.250s SMOOT SPD FILTER	0.250s	_____	_____

PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2
G6: PID Control			
1 SEL REF=MREF	MREF	_____	_____
2 PID LOC=+0.0%			
PID LOCAL SETPOI	+0.0%	_____	_____
3 SEL FBK=AI2	AI2	_____	_____
4 GAIN Kp=8.0			
PID PROPORTIONAL	8.0	_____	_____
5 INTEGRAL = 0.1s			
PID INTEGRAL	0.0s	_____	_____
6 DIFFEREN = 0.0s			
PID DIFFERENTIAL	0.0s	_____	_____
7 INVERT PID=N	N	_____	_____
8 ERR PID = +0.0%	+0.0%	_____	_____
G7: Start / Stop Mode Configuration			
1 STOP 1 = RAMP	RAMP	_____	_____
2 STOP 2 = SPIN	SPIN	_____	_____
3 BRK STP 2 = OFF			
STP2 UNDER SPEED	OFF	_____	_____
4 START = RAMP	RAMP	_____	_____
5 START 2 = RAMP	RAMP	_____	_____
6 START DLY = OFF			
DELAY TO START	OFF	_____	_____
7 STOP DLY = OFF			
DELAY TO STOP	OFF	_____	_____
8 STP MIN SP = N	N	_____	_____
9 OFFRet = OFF			
DELAY AFTER STOP	OFF	_____	_____
10 RUN AFTR VFL = Y	Y	_____	_____
11 SPNstr B=OFF			
SPIN START TUNE	OFF	_____	_____
12 OFFdly2=OFF			
DELAY AFTER STP2	OFF	_____	_____
13 STR AFT RST=Y	Y	_____	_____
G8: Outputs – S8.1: Output Relays			
1 SEL RELAY 1=02	02	_____	_____
2 T R1 ON=0.0s			
R1 ACTIVAT DELAY	0.0s	_____	_____
3 T R1 OFF=0.0s			
R1 DEACTIV DELAY	0.0s	_____	_____
4 INVERT R1=N	N	_____	_____
5 SEL RELAY 2=03	03	_____	_____
6 T R2 ON=0.0s			
R2 ACTIVAT DELAY	0.0s	_____	_____
7 T R2 OFF=0.0s			
R2 DEACTIV DELAY	0.0s	_____	_____
8 INVERT R2=N	N	_____	_____
9 SEL RELAY 3=05	05	_____	_____
10 T R3 ON=0.0s			
R3 ACTIVAT DELAY	0.0s	_____	_____

PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2
11 T R3 OFF=0.0s R3 DEACTIV DELAY	0.0s	_____	_____
12 INVERT R3=N	N	_____	_____
13 CRASpdOF=+5.0% CRANE BRKoff SPD	+5.0%	_____	_____
G8: Outputs – S8.2: Analogue Outputs			
1 ANLG OUT 1=01	01	_____	_____
2 FORMT 1=4-20 mA	mA	_____	_____
3 MIN1 RNG=0% MIN RANG ANAOUT1	+0%	_____	_____
4 MAX1 RNG=+100% MAX RANG ANAOUT1	+100%	_____	_____
5 FILTER 1=OFF FILTER ANAOUTPU1	OFF	_____	_____
6 ANLG OUT 2=02	02	_____	_____
7 FORMT 2=4-20 mA	4-20mA	_____	_____
8 MIN2 RNG=0% MIN RANG ANAOUT2	+0%	_____	_____
9 MAX2 RNG=+100% MAX RANG ANAOUT2	+100%	_____	_____
10 FILTER 2=OFF FILTER ANAOUTPU2	OFF	_____	_____
G9: Comparators – S9.1: Comparator 1			
1 COMP 1 SEL=00	00	_____	_____
2 COMP 1 TYPE=0	0	_____	_____
3 SP C1 ON=+100[%] C1 ACTIVAT LEVEL	+100[%]	_____	_____
4 LIM 2 C1=+100[%] C1 WINDOW LIMIT2	+100[%]	_____	_____
5 LIM 1 C1=+0[%] C1 WINDOW LIMIT1	+0[%]	_____	_____
6 T C1 ON=0.0s C1 ACTIVAT DELAY	0.0s	_____	_____
7 SP C1 OF=0[%] C1 DEACTIV LEVEL	+0[%]	_____	_____
8 T C1 OF=0.0s C1 DEACTIV DELAY	0.0s	_____	_____
9 SEL FUNT C1=00	00	_____	_____
G9: Comparators – S9.2: Comparator 2			
1 COMP 2 SEL=00	00	_____	_____
2 COMP 2 TYPE=0	0	_____	_____
3 SP C2 ON=+100[%] C2 ACTIVAT LEVEL	+100[%]	_____	_____
4 LIM 2 C2=+100[%] C2 WINDOW LIMIT2	+100[%]	_____	_____
5 LIM 1 C2=+0[%] C2 WINDOW LIMIT1	+0[%]	_____	_____
6 T C2 ON=0.0s C2 ACTIVAT DELAY	0.0s	_____	_____
7 SP C2 OF=0[%] C2 DEACTIV LEVEL	+0[%]	_____	_____
8 T C2 OF=0.0s C2 DEACTIV DELAY	0.0s	_____	_____
9 SEL FUNT C2=00	00	_____	_____

PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2
G9: Comparators – S9.3: Comparator 3			
1 COMP 3 SEL=00	00	_____	_____
2 COM 3 TYPE=0	0	_____	_____
3 SP C3 ON=+100[%] C3 ACTIVAT LEVEL	+100[%]	_____	_____
4 LIM 2 C3=+100[%] C3 WINDOW LIMIT2	+100[%]	_____	_____
5 LIM 1 C3=+0[%] C3 WINDOW LIMIT1	+0[%]	_____	_____
6 T C3 ON=0.0s C3 ACTIVAT DELAY	0.0s	_____	_____
7 SP C3 OF=0[%] C3 DEACTIV LEVEL	+0[%]	_____	_____
8 T C3 OF=0.0s C3 DEACTIV DELAY	0.0s	_____	_____
9 SEL FUNT C3=00	00	_____	_____
G10: Limits			
1 MIN1 SP=+0.00% SPEED MIN LIMIT1	+0.00%	_____	_____
2 MAX1 SP=+100% SPEED MAX LIMIT1	+100%	_____	_____
3 MIN2 SP=-100% SPEED MIN LIMIT2	-100%	_____	_____
4 MAX2 SP=+100% SPEED MAX LIMIT2	+100%	_____	_____
5 I LIMIT= ___ A MAX CURRENT	___ A	_____	_____
6 I LIM TO = OFF TIMOUT MAX CURRE	OFF	_____	_____
7 I. MAX2= ___ A MAX CURRENT 2	___ A	_____	_____
8 MI2 brSP=OFF MAX CURR BRK SPD	OFF	_____	_____
9 MAX TOR=+150% MAX TORQUE	+150%	_____	_____
10 T LIM TO=OFF TIMEOUT MAX TORQ	OFF	_____	_____
11 INVERSION?=N	N	_____	_____
12 ILIM RGN=OFF CURR.LIMIT.RGN	OFF	_____	_____
13 Ilim_rgnTO=OFF Ilim.Regen.Tmout	OFF	_____	_____
G11: Protections			
1 SP LIM_TO=OFF TMAX LIMITIN SPD	OFF	_____	_____
2 STOP TO=OFF TIMEOUT STOPPING	OFF	_____	_____
3 GND I LIMIT=10% GND CURR MAX LEV	10%	_____	_____
4 LOW VOLT=360V LO INPUT VOLTAGE	360V	_____	_____
5 LOW V TO=5s LO INP VOL TIMEO	5s	_____	_____
6 HIGH VOLT=500V HI INPUT VOLTAGE	500V	_____	_____
7 HI V TO=5s HI INP VOL TIMEO	5.0s	_____	_____
8 DlasY VO = OFF VOUT asyTRIP DLY	OFF	_____	_____

PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2
9 LOW V BHV=1	1	_____	_____
10 PTC EXT ?=N	N	_____	_____
11 PUMP OV=20.0A PUMP OVERLOAD LV	20.0A	_____	_____
12 Pmovl FIL=OFF PMP OVL FILTER	OFF	_____	_____
13 Povl DLY=OFF PMP OVERLOAD DLY	OFF	_____	_____
14 UNDERLOAD=N	N	_____	_____
15 ULD CUR= ___ A UNDERLOAD CURREN	___ A	_____	_____
16 ULD SPD=+100% UNDERLOAD SPEED	+100%	_____	_____
17 ULD DELY=10s UNDERLOAD DELAY	10s	_____	_____
18 DEC.SPdly=OFF DECREM.SP.DELAY	OFF	_____	_____
19 Sp.SRCH.I=10% SPD.SEARCH INCR.	10%	_____	_____
G12: Auto Reset			
1 AUTORESET=N	N	_____	_____
2 ATTEMP NUMBR=1 MAX ATTEMPT NUMB	1	_____	_____
3 R STR DEL=5s TIME BEFORE RESET	5s	_____	_____
4 RS COUNT=15min AUTORESET TIMOUT	15min	_____	_____
5 F1 AUTO RST=0	0	_____	_____
6 F2 AUTO RST=0	0	_____	_____
7 F3 AUTO RST=0	0	_____	_____
8 F4 AUTO RST=0	0	_____	_____
G13: Fault History			
1 F0 NO FAULT LAST FAULT=FXX	-	_____	_____
2 F0 NO FAULT FIFTH FAULT=FXX	-	_____	_____
3 F0 NO FAULT FOURTH FAULT=FXX	-	_____	_____
4 F0 NO FAULT THIRD FAULT=FXX	-	_____	_____
5 F0 NO FAULT SECOND FAULT=FXX	-	_____	_____
6 F0 NO FAULT FIRST FAULT=FXX	-	_____	_____
7 CLEAR FAULTS=N	N	_____	_____
G14: Multi-references			
1 MREF 1=+10.0% MULTI-REFERENCE1	+10.0%	_____	_____
2 MREF 2=+20.0% MULTI-REFERENCE2	+20.0%	_____	_____
3 MREF 3=+30.0% MULTI-REFERENCE3	+30.0%	_____	_____
4 MREF 4=+40.0% MULTI-REFERENCE4	+40.0%	_____	_____
5 MREF 5=+50.0% MULTI-REFERENCE5	+50.0%	_____	_____

PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2
6 MREF 6=+60.0% MULTI-REFERENCE6	+60.0%	_____	_____
7 MREF 7=+70.0% MULTI-REFERENCE7	+70.0%	_____	_____
G15: Inch Speeds			
1 INCH1=+0.00% INCH SPEED 1	+0.00%	_____	_____
2 INCH2=+0.00% INCH SPEED 2	+0.00%	_____	_____
3 INCH3=+0.00% INCH SPEED 3	+0.00%	_____	_____
G16: Skip Frequencies			
1 SKIP 1=+0.0% SKIP FREQUENCY 1	+0.0%	_____	_____
2 SKIP 2=+0.0% SKIP FREQUENCY 2	+0.0%	_____	_____
3 SKIP BAND=OFF OFFSET BAND	OFF	_____	_____
G17: Brake			
1 T DC BRAKE=OFF DC BRAKING TIME	OFF	_____	_____
2 DC CURR=0% DC CURRENT LEVEL	0%	_____	_____
3 DC VOLTS=0.0% DC BR VOLT LEVEL	0.0%	_____	_____
4 I HEATING=OFF Idc HEATING	OFF	_____	_____
5 DYN BRAK=N	N	_____	_____
6 VDC BRAKE=OFF VDC BRAKE START	OFF	_____	_____
G19: Fine Tuning – S19.1: IGBT Control			
1 TYPE CRTL=V/Hz	V / Hz	_____	_____
2 FRQ=4000Hz MODULAT FREQUENC	4000	_____	_____
3 PEWAVE=Y	Y	_____	_____
5 AUTOTUNE=N	N	_____	_____
6 OVERMODULATIO=N	N	_____	_____
G19: Fine Tuning – S19.2: MTR Load			
1 MIN FLUX = 100% MINIMUM FLUX	100%	_____	_____
2 BW BOOST=0.0% BOOST BAND	0.0%	_____	_____
3 V BOOST = 0.0% BOOST VOLTAGE	0.0%	_____	_____
4 SLIP COMPENS=N	N	_____	_____
6 TTP BAND=0.0%	0.0%	_____	_____
7 I SLIP=2.0% I SLIP COMPENSAT	2.0%	_____	_____
9 STR FRQ = 0.0% START FREQUENCY	0.0%	_____	_____
10 DAMP.ref=OFF DAMPINGreferec	OFF	_____	_____
13 CTR Vbus=800 REGEN BUS VOLT	800	_____	_____

PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2
G19: Fine Tuning – S19.3: MTR Model			
1 R STATOR=0.9% STATOR RESISTOR	0.9%	_____	_____
G20: Communication Buses – S20.0: Communications Control			
0 CONTROL COM=0	0	_____	_____
G20: Communication Buses – S20.1: Modbus RTU			
1 COMMS T/O=OFF COMMS TIMEOUT	OFF	_____	_____
2 COMM ADDR=10 COMM ADDRESS	10	_____	_____
3 BAUDS=9600	9600	_____	_____
4 PARITY=NONE	NONE	_____	_____
G20: Communication Buses – S20.2: PROFIBUS			
1 NODE ADDR=10 NODE ADDRESS	10	_____	_____
G20: Communication Buses – S20.3: CANOPEN			
1 CO NODEID=0	0	_____	_____
2 CO BAUD=1Mbps	1Mbps	_____	_____
3 CO REF sp=+0.0%	+0.0%	_____	_____
G20: Communication Buses – S20.4: DEVICENET			
1 DN MACID=0	0°	_____	_____
2 DNBAUD=500kbps	500kbps	_____	_____
3 CONTROL MODE=0	0	_____	_____
4 REFEREN MODE=0	0	_____	_____
5 ASM IN=70	70°	_____	_____
6 ASM- OUT=20	20°	_____	_____
7 DNst=UNUSED	UNUSED	_____	_____
G21: Networks – S21.1: ETHERNET			
1 AUTOMATIC IP=Y	Y	_____	_____
Ixxx.yyy.zzz.hhh	-	_____	_____
Sxxx.yyy.zzz.hhh	-	_____	_____
Gxxx.yyy.zzz.hhh	-	_____	_____
2 IP MANU. A=192	192	_____	_____
3 IP MANU. B=168	168	_____	_____
4 IP MANU. C=1	1	_____	_____
5 IP MANU. D=143	143	_____	_____
6 SUBNET A=255	255	_____	_____
7 SUBNET B=255	255	_____	_____
8 SUBNET C=255	255	_____	_____
PARAMETERS	FACTORY SETTINGS	SETTING 1	SETTING 2

9 SUBNET D=0	0	_____	_____
10 GATEWAY A=0	0	_____	_____
11 GATEWAY B=0	0	_____	_____
12 GATEWAY C=0	0	_____	_____
13 GATEWAY D=0	0	_____	_____
14 MAC A=0	0	_____	_____
15 MAC B=80	80	_____	_____
16 MAC C=194	194	_____	_____
17 MAC D=114	114	_____	_____
18 MAC E=X	X	_____	_____
19 MAC F=Y	Y	_____	_____
G21: Networks – S21.2: MODBUS TCP			
1 MIPTout=OFF	OFF	_____	_____
MODBUS TCP TOUT	OFF	_____	_____
G21: Networks – S21.3: ETHER./IP			
1 CONTROL MODE=0	0	_____	_____
2 REFEREN.MODE=0	0	_____	_____

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